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CLAIM AMENDMENTS:

- 1-20. (Canceled)
21. (Currently amended) An apparatus comprising:
a machine readable storage medium having stored thereon instructions
capable of being executed by a data processing platform, ~~said the~~ the
instructions being adapted to:
receive a literal source code macroinstruction;
encode the literal source code macroinstruction into a corresponding
subroutine address without an intermediate translation;
generate an execution stream; and
store the subroutine address.
22. (Previously presented) The apparatus of claim 21, wherein the instructions
are further adapted to execute a subroutine identified by the subroutine
address.
23. (Previously presented) The apparatus of claim 22, wherein the
instructions are further adapted to push at least one associated argument
onto a stack, the at least one associated argument adapted to be used as an
input to the subroutine identified by the subroutine address.
24. (Previously presented) The apparatus of claim 22, wherein the
instructions are further adapted to pop the at least one associated argument
from a stack, the at least one associated argument adapted to be used as an
input to the subroutine identified by the subroutine address.
25. (Previously presented) The apparatus of claim 22, wherein the
instructions are further adapted to push a result of the execution of the
subroutine onto a stack.

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26. (Previously presented) The apparatus of claim 22, wherein the instructions are further adapted to point to the first item associated with the subroutine stored in the execution stream.
27. (Previously presented) The apparatus of claim 21, wherein the instructions are further adapted to recursively execute a subroutine.
28. (Currently amended) A method comprising:
receiving a source code command input stream comprising a macroinstruction;
encoding said the macroinstruction into a corresponding subroutine address without an intermediate translation;
generating an execution stream for storing the subroutine address and associated arguments; and
executing a subroutine identified by the subroutine address.
29. (Currently amended) The method of claim 28, and further comprising pushing an argument onto a stack, the argument representing an input to said the subroutine identified by the subroutine address.
30. (Currently amended) The method of claim 28, and further comprising popping an argument from a stack, the argument representing an input to said the subroutine identified by said the subroutine address.
31. (Previously presented) The method of claim 28, and further comprising pushing a result of the execution of the subroutine onto a stack.
32. (Previously presented) The method of claim 28, and further comprising pointing to the first item associated with the subroutine stored in the execution stream.

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33. (Currently amended) An apparatus comprising:
a machine readable storage medium having stored thereon instructions
capable of being executed by a data processing platform, said the
instructions being adapted to:
encode macroinstructions to provide a corresponding executable address
without an intermediate translation.
34. (Previously presented) The apparatus of claim 33, wherein the
instructions are further adapted to receive the macroinstructions.
35. (Previously presented) The apparatus of claim 33, wherein the
instructions are further adapted to generate an execution stream.
36. (Previously presented) A method comprising:
translating a source code instruction to generate a subroutine address
without an intermediate translation.
37. (Previously presented) The method of claim 36, wherein translating the
source code instruction includes directly translating the source code.
38. (Canceled) Please cancel Claim 38 without prejudice.
39. (Previously presented) The method of claim 36, further comprising
receiving the source code instruction.
40. (Previously presented) The method of claim 36, wherein translating the
source code instruction includes parsing the source code instruction.
41. (Previously presented) The method of claim 36, further comprising
generating an execution stream for storing the subroutine address.